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VARIABILITY OF COTTON YIELDS  
By Counties, in the United States

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This is the third in a series of reports on the variability of county yields, by crops, over a relatively long period of time. The previous reports dealt with wheat and corn.<sup>1/</sup> The variability index used in each report has been the coefficient of variation.<sup>2/</sup>

In general, the average yields and coefficients of variation, shown by counties in tables 2-17, are based on county yields per planted acre for 1929-50. Although no adjustment for trend was made in the data, a procedure for estimating the effect of trend on the variability of yields is included on pages 2 and 4.<sup>3/</sup> The calculations were made for all counties in which more than 2,000 acres of cotton were harvested in 1949, as shown by census reports, except for a few counties for which five or more years of yields were missing during 1929-50.

Indices of variability in yields (coefficients of variation) provide an indication of the relative yield risk among counties. For counties in which cotton is a major crop, these indices should be useful in appraising land values, in studies of crop insurance, and as background information for studies in which yield uncertainty is an important consideration. Potential users of this information include lending agencies and research workers in crop insurance and farm management who are concerned with the measurement of risk costs.

The relative nature of the coefficient of variation as an index of yield risk is illustrated by the following example. Suppose that the average yield for each of two counties is 300 pounds; but that the coefficient of variation is 40 percent in county A and 20 percent in county B. According to normal distribution logic, two-thirds of the annual yields

<sup>1/</sup> "Variability of Wheat Yields, by Counties, in the United States," and "Variability of Corn Yields, by Counties, in the United States."

<sup>2/</sup> Standard deviation of annual county yields divided by the average county yield for the period.

<sup>3/</sup> Attention is also directed to the average yields (1938-46) that are shown, by counties, in United States Department of Agriculture Technical Bulletin 1042. The county coefficients of variation shown in that report are based on deviations from trend (standard error of estimate of trend values expressed as a percentage of average yield). The slope of the trend values is also shown, by counties, in that bulletin.

for county A might be expected to fall between 50 and 140 percent of the average, or between 180 and 420 pounds - a range of 240 pounds. With the same average yield, but with a coefficient of variation of only 20 percent, two-thirds of the annual yields for county B might be expected to fall between 80 and 120 percent of average, or between 240 and 360 pounds - a range of only 120 pounds. Therefore, with the same average yield (300 pounds), the range within which two-thirds of the annual yields might be expected to fall is twice as great for county A as for county B.

#### Regional Differences in Yield Risk

General differences in the degree of yield risk are shown in figure 1.<sup>4</sup> The greatest relative variability in county yields has occurred in Texas and Oklahoma. The variability decreases - in general - from west to east. In areas in which all acreage of cotton is ordinarily irrigated, the variability is less than in areas in which the proportion of the total acreage of cotton irrigated varies materially from year to year and is much less than in areas where cotton is grown without irrigation.

The upward trend in yields has been more pronounced in the East than in the West. Increased use of fertilizer, better selection of land, and wider use of improved varieties have contributed toward these increased yields.

In the Carolinas, yields apparently have been somewhat more variable in counties in the Coastal Plain than in counties in the Piedmont area. In South Carolina, part of this greater variability has apparently been due to the stronger upward trends in annual yields and the lower average yields that have occurred in the Coastal Plain than in the Piedmont area. In North Carolina, the greater variability in yields in Coastal Plain counties has occurred despite the stronger upward trends in annual yields and the higher average yields in the interior counties.

Data in the tables included in this report may be used to make comparisons between counties.

#### Estimated Reduction in Coefficient of Variation if Based Upon Deviations from Trend Values Rather than Upon Deviations from Average Yield

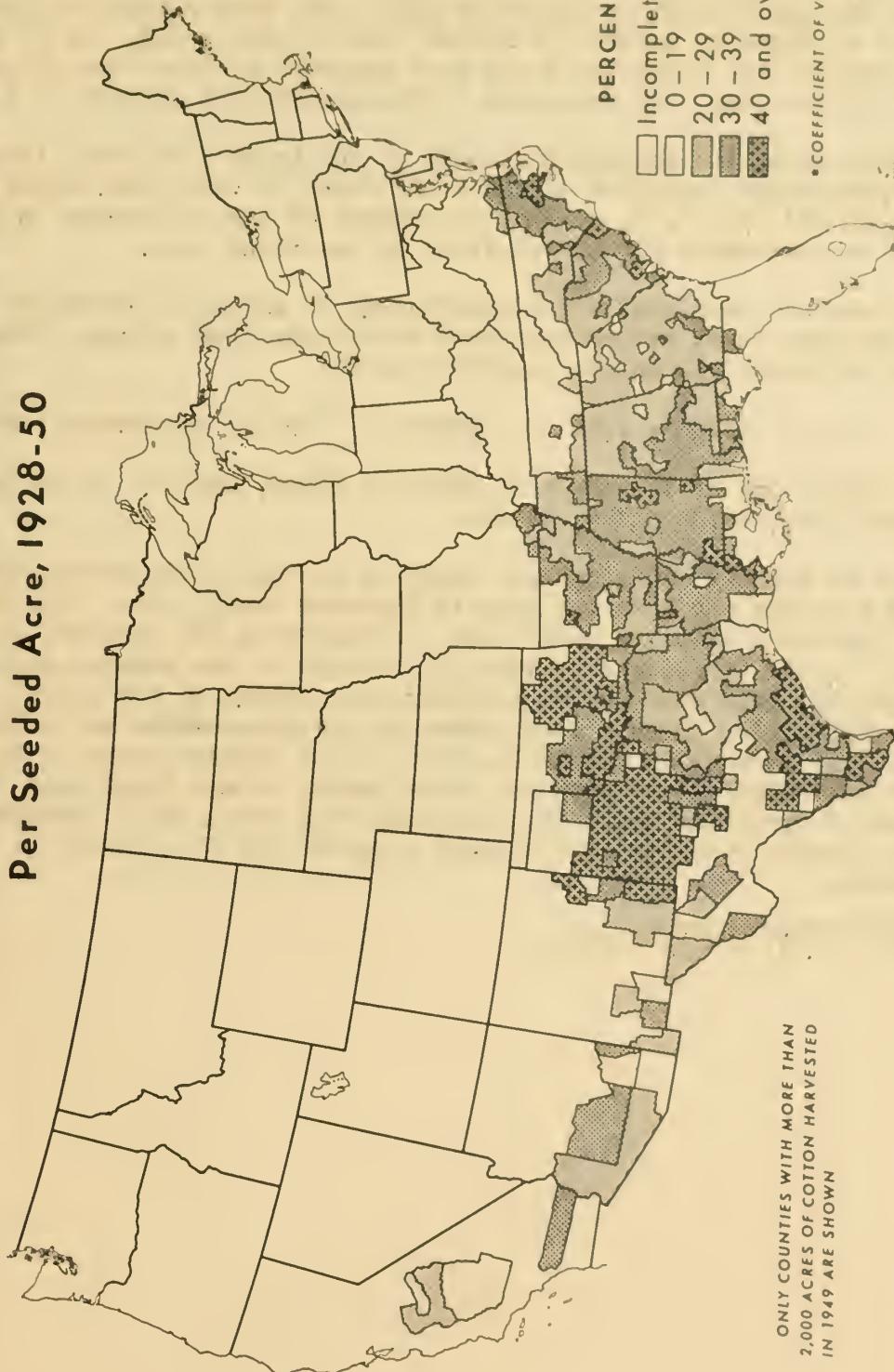
If a substantial trend in annual county yields existed, a coefficient of variation based upon (A), the squared deviations of the annual yields from the average yield, would be substantially higher than one based on (B), the squared deviations from trend. As previously indicated, method (A) was used to compute the coefficients of variation shown in the appendix tables of this report. However, for purposes of comparison, computations based on method (B) were also made for every fifth county. The results are summarized in table 1.

<sup>4</sup>/ Counties that are shaded alike had coefficients of variation that fell within the same coefficient-of-variation interval.

# VARIABILITY OF COUNTY COTTON YIELDS

Per Seeded Acre, 1928-50

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FIGURE 1

The steeper the slope of the trend line through annual yields, the greater would be the difference between the coefficients of variation computed by the two methods. Only 14 of the 154 counties had a downward rather than an upward trend in annual yields during 1929-50. Nine of these 14 counties were west of the Mississippi River. In about half of the 154 counties the coefficient of variation would have been reduced by less than 5 percent if based on method (B) rather than on method (A). In 72 percent of the counties the reduction would have amounted to less than 10 percent. For all 154 counties, the reduction in the coefficient averaged 7.6 percent.

The correlation between the slope of the trend line (used in method B) and the percentage reduction in the coefficient of variation, using (B) rather than (A), was 0.89, so that 79 percent of the difference in the percentages was accounted for by the slope of the trend line.

Those who have need for a coefficient of variation based upon deviations from trend rather than upon deviations from average yield, will find the following regression equation useful:

$$P_r = 2.79S - 1.08 \dots \text{ where } P_r \text{ is the percentage reduction}$$

in the coefficient of variation if based on trend, and "S" is the slope of the trend line through annual yields.

As an example, the (upward) trend in cotton yields during 1929-50 averaged 5 pounds per acre per year in Cherokee County, Ala. The above formula indicates that the coefficient of variation (22 percent) shown in table 2 would be reduced by about 13 percent if the squared deviations from trend had been used in the calculations instead of the squared deviations from average yield. Such a coefficient of variation would be estimated, therefore, at 19.1 percent in comparison with the 22 percent shown in table 2.5/ Using actual county yield data for these years, it was found that the coefficient of variation based on deviations from trend was 19 percent, which compares closely with the 19.1 percent computed for this county by use of the formula.

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$$\sqrt{22(1 - .13)} = 19.1 \text{ percent.}$$

Table 1.- Relationship between (1) slope of trend line through annual county yields and (2) percentage reduction in coefficient of variation if based on (A) deviations from trend values, rather than (B) deviations from average county yield

Slope of trend line through annual yields	Coun- ties	Percentage reduction in coefficient of variation if based on (A) deviations from trend rather than upon (B) deviations from average yield					Average percent
		Less than 5 percent	5-9.9 percent	10-14.9 percent	15-24.9 percent	25 per- cent or over	
		Number	Number of counties	Number of counties	Number of counties	Number of counties	
<u>Upward trend</u>							
7 pounds or over	13					5	8
6 - 6.9 pounds	8				3	3	2
5 - 5.9 do.	9			7	2		12.6
4 - 4.9 do.	18	1	9	6	2		10.0
3 - 3.9 do.	18	5	10	1	2		7.9
2 - 2.9 do.	29	14	13	2			5.0
1 - 1.9 do.	26	24	2				2.5
Less than 1 pound	19	19					0.5
<u>Downward trend</u>							
Less than 1 pound	12	12					0.3
1 - 1.9 pounds	2	2					1.6
Total	154	77	34	19	14	10	7.6
Percent of counties	100.0	50.0	22.1	12.3	9.1	6.5	XX
Average percentage reduction	XX	-1.7	7.3	11.4	19.1	31.3	7.6

## ALABAMA

Table 2.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percent	1/ Percent
Autauga . . . . .	207.7	30	25
Baldwin . . . . .	226.3	31	3
Barbour . . . . .	163.7	30	13
Bibb . . . . .	222.6	31	27
Blount . . . . .	292.4	26	39
Bullock . . . . .	139.9	34	24
Butler . . . . .	197.0	34	22
Calhoun . . . . .	221.1	21	30
Chambers . . . . .	194.8	28	33
Cherokee . . . . .	287.9	22	47
Chilton . . . . .	233.8	26	24
Choctaw . . . . .	170.5	37	22
Clarke . . . . .	180.8	36	15
Clay . . . . .	208.6	18	20
Cleburne . . . . .	212.4	20	27
Coffee . . . . .	205.1	27	18
Colbert . . . . .	278.8	29	55
Conecuh . . . . .	204.1	30	22
Coosa . . . . .	179.9	28	18
Covington . . . . .	202.6	29	17
Crenshaw . . . . .	192.5	28	21
Cullman . . . . .	337.8	26	47
Dale . . . . .	189.0	27	9
Dallas . . . . .	192.1	39	35
De Kalb . . . . .	345.8	27	37
Elmore . . . . .	228.4	20	36
Escambia . . . . .	232.2	27	22
Etowah . . . . .	280.9	26	38
Fayette . . . . .	228.0	31	30
Franklin . . . . .	252.0	25	41
Geneva . . . . .	230.4	29	20
Greene . . . . .	166.6	26	34
Hale . . . . .	209.0	32	34
Henry . . . . .	213.0	24	15
Houston . . . . .	235.3	22	21
Jackson . . . . .	283.1	26	34
Jefferson . . . . .	246.6	26	22
Lamar . . . . .	232.6	28	38
Lauderdale . . . . .	251.3	22	48

(Continued)

## ALABAMA

Table 2.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percent	Percent
Lawrence . . . . .	284.5	27	53
Lee . . . . .	178.2	26	30
Limestone . . . . .	285.0	25	58
Lowndes . . . . .	168.5	34	30
Macon . . . . .	186.0	26	40
Madison . . . . .	282.3	24	55
Marengo . . . . .	174.5	31	32
Marion . . . . .	241.0	27	39
Marshall . . . . .	351.7	23	50
Mobile . . . . .	235.1	29	8
Monroe . . . . .	217.6	30	32
Montgomery . . . . .	177.9	33	24
Morgan . . . . .	298.3	23	47
Perry . . . . .	166.5	32	26
Pickens . . . . .	220.3	34	38
Pike . . . . .	180.1	28	18
Randolph . . . . .	228.9	20	28
Russell . . . . .	152.6	28	31
St. Clair . . . . .	228.0	20	30
Shelby . . . . .	225.7	25	29
Sumter . . . . .	166.8	38	28
Talladega . . . . .	209.1	24	35
Tallapoosa . . . . .	196.0	23	30
Tuscaloosa . . . . .	228.7	29	36
Walker . . . . .	238.9	30	28
Washington . . . . .	201.5	29	13
Wilcox . . . . .	176.0	34	31
Winston . . . . .	267.6	27	40

- I/ Percentage based on census data for 1949.

ARIZONA

Table 3.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County 1/	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested	2/ Percent
	Pounds	Percent		
Graham . . . . .	534.9	17		72
Greenlee . . . . .	423.0	31		55
Maricopa . . . . .	459.8	32		32
Pima 3/ . . . . .	551.0	29		75
Pinal . . . . .	423.8	34		75
Yuma . . . . .	397.7	23		7

- 1/ Only counties with more than 2,000 acres of cotton harvested in 1949 are shown. Less than this acreage was harvested in all unlisted counties except Cochise and Santa Cruz, which are not shown because 5 or more years of yields were missing.

2/ Percentage based on census data for 1949.

3/ Average yield and coefficient of variation based on data for periods 1928-31 and 1933-50.

## ARKANSAS

Table 4.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County 1/	Average yield <u>Pounds</u>	Coefficient of variation <u>Percent</u>	Cotton acreage har- vested as percentage of cropland harvested 2/	
			Percent	Percent
Arkansas . . . . .	227.5	33		8
Ashley . . . . .	270.4	33		51
Bradley . . . . .	183.7	29		41
Calhoun . . . . .	169.9	28		52
Chicot . . . . .	271.6	33		59
Clark . . . . .	190.7	34		34
Clay . . . . .	319.5	26		41
Cleburne . . . . .	174.4	35		32
Cleveland . . . . .	166.1	30		51
Columbia . . . . .	162.0	22		47
Conway . . . . .	175.1	35		38
Craighead . . . . .	355.6	23		56
Crittenden . . . . .	392.9	32		69
Cross . . . . .	344.1	34		44
Dallas . . . . .	173.3	30		40
Desha . . . . .	293.8	31		58
Drew . . . . .	216.9	35		45
Faulkner . . . . .	189.5	31		47
Fulton . . . . .	183.7	37		11
Grant . . . . .	168.7	29		27
Greene . . . . .	319.7	27		44
Hempstead . . . . .	171.7	29		42
Hot Spring . . . . .	176.4	32		19
Howard . . . . .	151.7	28		22
Independence . . . . .	210.5	31		25
Izard . . . . .	180.6	38		28
Jackson . . . . .	245.0	27		57
Jefferson . . . . .	297.3	33		72
Johnson . . . . .	170.8	42		5
Lafayette . . . . .	204.7	28		68
Lawrence . . . . .	248.9	29		41
Lee . . . . .	291.6	30		61
Lincoln . . . . .	252.9	32		65
Little River . . . . .	167.4	27		37
Logan . . . . .	160.8	37		10
Lonoke . . . . .	258.4	30		53
Miller . . . . .	196.0	27		60
Mississippi . . . . .	436.4	25		67
Monroe . . . . .	258.2	34		58
Nevada . . . . .	157.1	26		43

(Continued)

ARKANSAS

Table 4.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County 1/	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percent	Percent
Ouachita . . . . .	158.4	29	38
Perry . . . . .	163.3	36	19
Phillips . . . . .	300.6	31	64
Pike . . . . .	134.7	31	16
Poinsett . . . . .	409.0	25	56
Pope . . . . .	158.5	35	21
Prairie . . . . .	235.4	35	16
Pulaski . . . . .	260.8	30	53
Randolph . . . . .	252.4	31	35
St. Francis . . . . .	338.7	31	64
Sevier . . . . .	138.8	30	16
Sharp . . . . .	182.3	37	32
Union . . . . .	169.0	30	34
Van Buren . . . . .	152.7	39	21
White . . . . .	198.9	29	46
Woodruff . . . . .	264.9	27	52
Yell . . . . .	183.4	31	25

1/ Only counties with more than 2,000 acres of cotton harvested in 1949 are shown.

2/ Percentage based on census data for 1949.

CALIFORNIA

Table 5.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County 1/	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percent	2/ Percent
Fresno . . . . .	567.0	20	29
Kern . . . . .	652.8	15	50
Kings . . . . .	574.4	15	36
Madera . . . . .	495.1	17	30
Merced . . . . .	440.6	25	14
Riverside . . . . .	367.2	30	3
Tulare . . . . .	558.4	14	37

1/ Only counties with more than 2,000 acres of cotton harvested in 1949 are shown.

2/ Percentage based on census data for 1949.

FLORIDA

Table 6.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County 1/	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percent	2/ Percent
Escambia . . . . .	200.1	32	12
Holmes . . . . .	179.0	31	15
Jackson . . . . .	170.9	27	6
Jefferson . . . . .	111.8	32	4
Madison . . . . .	130.9	31	6
Okaloosa . . . . .	162.9	28	14
Santa Rosa . . . . .	184.6	32	16
Walton . . . . .	154.4	30	11

1/ Only counties with more than 2,000 acres of cotton harvested in 1949 are shown.

2/ Percentage based on census data for 1949.

GEORGIA

Table 7.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County 1/	Average	Coefficient	Cotton acreage har-
	yield Pounds	of variation Percent	vested as percentage of cropland harvested 2/
Appling . . . . .	201.9	28	18
Atkinson . . . . .	174.5	37	9
Bacon . . . . .	205.6	28	14
Baker . . . . .	161.2	34	5
Baldwin . . . . .	190.6	25	16
Banks . . . . .	225.0	25	28
Barrow . . . . .	258.7	17	36
Bartow . . . . .	257.5	22	51
Ben Hill . . . . .	206.1	20	18
Berrien . . . . .	208.0	30	7
Bibb . . . . .	206.7	25	11
Bleckley . . . . .	214.0	30	24
Brooks . . . . .	210.4	27	12
Bulloch . . . . .	232.1	24	17
Burke . . . . .	226.0	24	37
Butts . . . . .	238.0	24	31
Calhoun . . . . .	215.1	22	9
Canter . . . . .	211.1	25	24
Carroll . . . . .	248.7	21	31
Catoosa . . . . .	250.5	26	18
Chattooga . . . . .	258.4	26	38
Cherokee . . . . .	230.9	26	21
Clarke . . . . .	231.4	26	25
Clay . . . . .	208.1	26	9
Clayton . . . . .	201.4	23	17
Cobb . . . . .	224.7	25	20
Coffee . . . . .	202.9	33	13
Colquitt . . . . .	249.4	24	18
Columbia . . . . .	184.5	30	23
Cook . . . . .	221.8	29	11
Coweta . . . . .	229.1	19	26
Crawford . . . . .	148.9	30	11
Crisp . . . . .	229.3	20	20
Decatur . . . . .	155.4	37	3
Dodge . . . . .	200.2	25	24
Dooly . . . . .	222.0	20	26
Dougherty . . . . .	175.0	24	6
Douglas . . . . .	221.0	22	22
Early . . . . .	210.5	25	15

(Continued)

GEORGIA

Table 7.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County 1/	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percent	2/ Percent
Effingham . . . . .	194.9	28	11
Elbert . . . . .	210.4	27	33
Emanuel . . . . .	186.0	27	28
Evans . . . . .	210.6	26	13
Fayette . . . . .	241.0	21	32
Floyd . . . . .	238.3	21	38
Forsyth . . . . .	242.5	25	28
Franklin . . . . .	240.3	22	33
Fulton . . . . .	233.7	20	21
Glascock . . . . .	218.0	26	35
Gordon . . . . .	281.9	21	46
Grady . . . . .	188.4	24	4
Greene . . . . .	195.8	22	24
Gwinnett . . . . .	228.1	16	60
Hall . . . . .	215.8	23	23
Hancock . . . . .	199.1	23	34
Haralson . . . . .	253.8	23	32
Harris . . . . .	179.7	26	17
Hart . . . . .	257.4	27	36
Heard . . . . .	210.0	19	27
Henry . . . . .	245.6	24	34
Houston . . . . .	189.0	24	13
Irwin . . . . .	230.9	23	17
Jackson . . . . .	218.5	17	37
Jasper . . . . .	237.6	24	29
Jeff Davis . . . . .	199.4	30	14
Jefferson . . . . .	222.6	24	31
Jenkins . . . . .	227.0	25	32
Johnson . . . . .	213.1	26	38
Lamar . . . . .	205.3	24	20
Laurens . . . . .	211.8	25	31
Lee . . . . .	186.2	26	6
Lincoln . . . . .	192.4	22	25
Lowndes . . . . .	204.0	29	6
McDuffie . . . . .	227.3	24	36
Macon . . . . .	199.2	27	21
Madison . . . . .	253.4	22	35
Marion . . . . .	165.2	29	18
Meriwether . . . . .	209.5	23	32
Miller . . . . .	192.0	29	6

(Continued)

## GEORGIA

Table 7.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County 1/	Average	Coefficient	Cotton acreage har-
	yield Pounds	of variation Percent	vested as percentage of cropland harvested 2/ Percent
Mitchell . . . . .	207.0	27	9
Monroe . . . . .	185.6	28	17
Montgomery . . . . .	187.0	26	19
Morgan . . . . .	258.3	20	49
Murray . . . . .	256.8	26	31
Newton . . . . .	256.0	21	32
Oconee . . . . .	244.9	21	39
Oglethorpe . . . . .	222.0	24	30
Paulding . . . . .	246.9	24	35
Peach . . . . .	223.9	25	7
Pickens . . . . .	207.0	27	27
Pierce . . . . .	202.5	26	9
Pike . . . . .	221.8	23	29
Polk . . . . .	264.0	25	46
Pulaski . . . . .	209.6	24	29
Putnam . . . . .	217.0	21	22
Randolph . . . . .	202.8	25	9
Richmond . . . . .	219.2	21	24
Rockdale . . . . .	240.0	24	31
Schley . . . . .	194.4	27	24
Screven . . . . .	232.4	27	31
Seminole . . . . .	202.7	26	11
Spalding . . . . .	227.4	21	17
Stewart . . . . .	171.4	31	9
Sumter . . . . .	228.2	22	16
Talbot . . . . .	149.9	24	16
Taliaferro . . . . .	171.9	25	30
Tattnall . . . . .	203.2	24	12
Taylor . . . . .	203.3	27	23
Telfair . . . . .	187.3	29	16
Terrell . . . . .	259.4	22	17
Thomas . . . . .	206.0	28	6
Tift . . . . .	242.8	22	12
Toombs . . . . .	200.4	25	25
Treutlen . . . . .	187.1	28	23
Troup . . . . .	163.0	23	15
Turner . . . . .	222.3	23	16
Twiggs . . . . .	158.3	28	20
Upson . . . . .	173.6	29	11

(Continued)

GEORGIA

Table 7.- Average yield and coefficient of variation of annual yields, 1926-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County <sup>1/</sup>	Average	Coefficient	Cotton acreage har-
	yield Pounds	of variation Percent	vested as percentage of cropland harvested <sup>2/</sup> Percent
Walker . . . . .	272.2	23	21
Walton . . . . .	278.6	20	49
Warren . . . . .	237.2	23	43
Washington . . . . .	216.1	23	29
Wayne . . . . .	213.1	29	19
Webster . . . . .	159.4	31	6
Wheeler . . . . .	189.9	33	15
Whitfield . . . . .	252.4	21	22
Wilcox . . . . .	205.1	20	25
Wilkes . . . . .	188.0	19	28
Wilkinson . . . . .	168.2	28	14
Worth . . . . .	222.6	24	18

- <sup>1/</sup> Only counties with more than 2,000 acres of cotton harvested in 1949 are shown.

<sup>2/</sup> Percentage based on census data for 1949.

## LOUISIANA

Table 8.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by parishes

Parish 1/	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percent	2/
Acadia . . . . .	269.6	34	13
Avoyelles . . . . .	296.6	38	4
Bienville . . . . .	147.6	35	38
Bossier . . . . .	248.4	31	59
Caddo . . . . .	268.6	29	65
Caldwell . . . . .	266.5	32	47
Catahoula . . . . .	276.4	35	51
Claiborne . . . . .	155.7	27	46
Concordia . . . . .	309.3	39	52
De Soto . . . . .	156.0	37	49
East Carroll . . . . .	335.5	32	57
East Feliciana . . . . .	174.8	39	17
Evangeline . . . . .	260.4	34	24
Franklin . . . . .	274.3	27	62
Grant . . . . .	234.9	39	32
Iberia . . . . .	200.2	38	4
Jackson . . . . .	155.4	32	23
Lafayette . . . . .	254.5	34	28
Lincoln . . . . .	154.0	30	39
Madison . . . . .	318.5	35	46
Morehouse . . . . .	298.8	34	56
Natchitoches . . . . .	255.1	33	54
Ouachita . . . . .	266.3	30	52
Pointe Coupee . . . . .	289.0	42	25
Rapides . . . . .	319.6	39	39
Red River . . . . .	212.1	34	50
Richland . . . . .	269.4	29	65
Sabine . . . . .	167.4	35	30
St. Helena . . . . .	162.4	36	17
St. Landry . . . . .	264.9	39	31
St. Martin . . . . .	246.6	45	18
Tensas . . . . .	334.0	27	46
Union . . . . .	171.6	29	36
Vermillion . . . . .	220.6	29	6
Vernon . . . . .	168.6	34	16
Washington . . . . .	212.9	36	20
Webster . . . . .	160.3	40	40
West Carroll . . . . .	286.7	26	51
West Feliciana . . . . .	160.8	42	9
Winn . . . . .	165.1	34	22

1/ Only parishes with more than 2,000 acres of cotton harvested in 1949 are shown.

2/ Percentage based on census data for 1949.

MISSISSIPPI

Table 9.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County 1/	Average	Coefficient	Cotton acreage har-
	yield Pounds	of variation Percont	vested as percentage of cropland harvested 2/
Adams . . . . .	200.6	42	22
Alcorn . . . . .	254.3	30	41
Amite . . . . .	199.5	39	30
Attala . . . . .	205.6	35	37
Benton . . . . .	243.4	28	39
Bolivar . . . . .	340.2	29	67
Calhoun . . . . .	232.6	39	30
Carroll . . . . .	211.0	34	38
Chickasaw . . . . .	214.8	42	32
Choctaw . . . . .	190.9	43	27
Claiborne . . . . .	209.6	38	26
Clarke . . . . .	202.5	40	20
Clay . . . . .	180.9	44	26
Coahoma . . . . .	368.0	30	74
Copiah . . . . .	192.8	35	26
Covington . . . . .	231.7	36	39
De Soto . . . . .	287.4	30	52
Franklin . . . . .	182.4	41	16
Grenada . . . . .	224.8	36	42
Hinds . . . . .	219.3	36	43
Holmes . . . . .	271.4	28	47
Humphreys . . . . .	326.9	30	83
Issaquena . . . . .	278.3	33	54
Itawamba . . . . .	225.2	36	37
Jasper . . . . .	214.8	37	26
Jefferson . . . . .	209.6	39	27
Jefferson Davis . . . . .	240.3	39	42
Jones . . . . .	239.0	31	26
Kemper . . . . .	179.3	24	33
Lafayette . . . . .	227.4	33	42
Lamar . . . . .	221.6	36	18
Lauderdale . . . . .	191.8	39	25
Lawrence . . . . .	232.0	37	35
Leake . . . . .	232.9	34	43
Lee . . . . .	246.0	34	43
Leflore . . . . .	351.9	30	58
Lincoln . . . . .	197.5	37	26
Lowndes . . . . .	199.2	37	31
Madison . . . . .	222.0	34	46

(Continued)

MISSISSIPPI

Table 9.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County <sup>1/</sup>	Average	Coefficient	Cotton acreage har-
	yield <u>Pounds</u>	of variation <u>Percent</u>	vested as percentage of cropland harvested <u>Percent</u>
Marion . . . . .	225.7	36	31
Marshall . . . . .	227.4	32	50
Monroe . . . . .	221.6	38	39
Montgomery . . . . .	200.8	39	35
Neshoba . . . . .	220.8	36	33
Newton . . . . .	216.2	34	27
Noxubee . . . . .	188.4	38	32
Oktibbeha . . . . .	158.0	47	19
Panola . . . . .	255.0	33	48
Perry <sup>3/</sup> . . . . .	195.7	35	9
Pike . . . . .	199.8	38	26
Pontotoc . . . . .	231.4	32	41
Frontiss . . . . .	248.4	36	42
Quitman . . . . .	342.9	31	74
Rankin . . . . .	222.6	35	32
Scott . . . . .	234.0	35	34
Sharkey . . . . .	345.0	31	63
Simpson . . . . .	233.4	34	39
Smith . . . . .	249.6	36	33
Sunflower . . . . .	336.9	30	68
Tallahatchie . . . . .	301.8	35	59
Tate . . . . .	281.6	33	50
Tippah . . . . .	236.4	30	43
Tishomingo . . . . .	239.0	30	45
Tunica . . . . .	370.5	35	61
Union . . . . .	241.0	32	41
Walthall . . . . .	233.5	35	35
Warren . . . . .	250.2	37	28
Washington . . . . .	355.8	28	66
Wayne . . . . .	206.5	31	24
Webster . . . . .	216.4	38	34
Wilkinson . . . . .	187.0	45	19
Winston . . . . .	210.6	40	34
Yalobusha . . . . .	215.5	38	34
Yazoo . . . . .	269.2	32	43

<sup>1/</sup> Only counties with more than 2,000 acres of cotton harvested in 1949 are shown.

<sup>2/</sup> Percentage based on census data for 1949.

<sup>3/</sup> Average yield and coefficient of variation based on data for 1928-48.

MISSOURI

Table IO.- Average yield and coefficient of variation of annual yields,  
1928-50, and cotton acreage harvested as percentage of  
cropland harvested, 1949, by counties

County <u>1/</u>	Average	Coefficient	Cotton acreage har-
	yield	of variation	vested as percentage of cropland harvested <u>2/</u>
	<u>Pounds</u>	<u>Percent</u>	<u>Percent</u>
Butler . . . . .	301.2	24	21
Dunklin . . . . .	371.2	26	59
Mississippi . . . . .	405.3	33	26
New Madrid . . . . .	366.3	30	47
Pemiscot . . . . .	405.0	25	66
Ripley <u>3/</u> . . . . .	229.9	34	13
Scott . . . . .	310.8	33	17
Stoddard . . . . .	324.2	31	24

1/ Only counties with more than 2,000 acres of cotton harvested in 1949 are shown.

2/ Percentage based on census data for 1949.

3/ Average yield and coefficient of variation based on data for 1928-48.

NEW MEXICO

Table 11.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County <u>1/</u>	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested <u>2/</u>
	Pounds	Percent	Percent
Chaves . . . . .	440.3	22	59
Dona Ana . . . . .	566.5	19	86
Eddy . . . . .	410.7	22	69
Hidalgo . . . . .	445.2	27	74
Lea . . . . .	145.3	49	70
Luna . . . . .	440.0	30	73
Quay . . . . .	105.2	51	4
Roosevelt . . . . .	152.4	37	7
Sierra . . . . .	443.5	24	61

1/ Only counties with more than 2,000 acres of cotton harvested in 1949 are shown.

2/ Percentage based on census data for 1949.

NORTH CAROLINA

Table 12.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County 1/	Average yield <u>Pounds</u>	Coefficient of variation <u>Percent</u>	Cotton acreage har- vested as percentage of cropland harvested <u>2/</u> <u>Percent</u>
			Percent
Anson . . . . .	278.4	21	31
Beaufort . . . . .	272.0	40	3
Bertie . . . . .	306.5	35	13
Bladen . . . . .	254.8	33	12
Cabarrus . . . . .	287.0	25	15
Catawba . . . . .	328.8	26	13
Chowan . . . . .	299.9	38	9
Cleveland . . . . .	391.3	24	55
Columbus . . . . .	257.2	38	4
Cumberland . . . . .	288.1	27	27
Davie . . . . .	290.3	23	7
Duplin . . . . .	283.9	33	7
Edgecombe . . . . .	288.8	34	19
Franklin . . . . .	275.5	30	22
Gaston . . . . .	304.4	25	21
Gates . . . . .	308.6	32	11
Greene . . . . .	263.4	41	11
Halifax . . . . .	312.1	31	28
Harnett . . . . .	342.6	27	26
Hertford . . . . .	304.4	36	14
Hoke . . . . .	340.7	26	47
Iredell . . . . .	325.3	22	17
Johnston . . . . .	303.4	30	22
Lee . . . . .	287.0	27	11
Lenoir . . . . .	262.6	38	6
Lincoln . . . . .	361.0	23	32
Martin . . . . .	298.4	40	7
Mecklenburg . . . . .	288.8	26	23
Montgomery . . . . .	253.4	24	8
Moore . . . . .	241.0	30	5
Nash . . . . .	305.9	32	21
Northhampton . . . . .	355.6	31	28
Perquimans . . . . .	302.2	39	7
Pitt . . . . .	272.0	40	8
Polk . . . . .	333.6	22	21
Richmond . . . . .	262.4	25	23
Robeson . . . . .	305.8	25	32
Rowan . . . . .	327.8	20	12

(Continued)

NORTH CAROLINA

Table 12.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County 1/	Average	Coefficient	Cotton acreage har-
	yield Pounds	of variation Percent	vested as percentage of cropland harvested 2/ Percent
Rutherford . . . . .	317.3	26	36
Sampson . . . . .	308.0	31	25
Scotland . . . . .	316.2	30	49
Stanly . . . . .	314.7	31	7
Union . . . . .	303.6	27	27
Vance . . . . .	294.6	26	11
Wake . . . . .	273.0	33	12
Warren . . . . .	286.7	28	25
Wayne . . . . .	280.6	34	17
Wilson . . . . .	298.5	37	18

- 1/ Only counties with more than 2,000 acres of cotton harvested in 1949 are shown.

2/ Percentage based on census data for 1949.

## OKLAHOMA

Table 13.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County 1/	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percent	Percent
Atoka . . . . .	104.9	45	10
Beckham . . . . .	150.3	33	36
Blaine . . . . .	158.7	36	5
Bryan . . . . .	115.1	39	22
Caddo . . . . .	166.6	35	25
Canadian . . . . .	168.1	36	6
Carter . . . . .	97.0	45	8
Choctaw . . . . .	119.4	38	18
Cleveland . . . . .	154.6	37	6
Coal . . . . .	112.9	37	22
Comanche . . . . .	119.4	43	14
Cotton . . . . .	134.4	47	12
Creek . . . . .	142.0	52	18
Custer . . . . .	154.1	43	8
Dewey . . . . .	136.4	36	3
Garvin . . . . .	147.1	36	13
Grady . . . . .	147.3	38	15
Greer . . . . .	141.4	39	40
Harmon . . . . .	136.6	40	50
Haskell . . . . .	124.0	46	19
Hughes . . . . .	136.3	44	16
Jackson . . . . .	149.1	47	30
Jefferson . . . . .	140.4	40	38
Johnston . . . . .	120.8	37	12
Kiowa . . . . .	142.4	48	15
Latimer . . . . .	115.4	49	13
Le Flore . . . . .	131.9	53	12
Lincoln . . . . .	128.2	53	6
Logan . . . . .	136.9	47	4
Love . . . . .	125.6	40	29
McClain . . . . .	149.9	34	22
McCurtain . . . . .	146.0	34	33
McIntosh . . . . .	139.2	45	31
Marshall . . . . .	130.0	41	21
Mayes . . . . .	149.2	50	3
Muskogee . . . . .	144.5	45	27
Noble . . . . .	150.7	48	1
Okfuskoee . . . . .	139.5	48	28
Oklmulgee . . . . .	147.3	52	28

(Continued)

OKLAHOMA

Table 13.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County <sup>1/</sup>	Average	Coefficient	Cotton acreage har-
	yield	of variation	vested as percentage
	Pounis	Percent	of cropland harvested
Osage . . . . . . . . . .	181.2	48	12
Pawnee . . . . . . . . . .	174.6	49	14
Payne . . . . . . . . . .	159.7	51	9
Pittsburg . . . . . . . . .	130.4	42	24
Pontotoc . . . . . . . . .	120.4	40	7
Pottawatomie . . . . . . .	143.0	38	4
Roger Mills . . . . . . .	128.4	37	15
Rogers . . . . . . . . . .	136.1	49	3
Seminole . . . . . . . . .	120.1	47	8
Soquoyah . . . . . . . . .	138.6	51	6
Stephens . . . . . . . . .	119.2	45	13
Tillman . . . . . . . . . .	183.9	42	19
Tulsa . . . . . . . . . .	176.0	40	8
Wagoner . . . . . . . . . .	154.2	51	21
Washita . . . . . . . . . .	165.3	35	25

<sup>1/</sup> Only counties with more than 2,000 acres of cotton harvested in 1949 are shown.

<sup>2/</sup> Percentage based on census data for 1949.

SOUTH CAROLINA

Table 14.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County 1/	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percent	Percent
Abbeville . . . . .	221.6	29	29
Aiken . . . . .	266.2	24	29
Allendale . . . . .	238.0	28	28
Anderson . . . . .	273.5	26	31
Bamberg . . . . .	230.5	29	27
Barnwell . . . . .	244.0	29	28
Berkeley . . . . .	244.2	36	27
Calhoun . . . . .	300.3	25	31
Cherokee . . . . .	289.6	26	43
Chester . . . . .	276.0	31	32
Chesterfield . . . . .	254.1	25	41
Clarendon . . . . .	265.8	27	37
Colleton . . . . .	235.9	40	20
Farlington . . . . .	270.5	32	31
Dillon . . . . .	320.9	30	38
Dorchester . . . . .	265.0	37	26
Edgefield . . . . .	296.6	26	31
Fairfield . . . . .	218.8	30	27
Florence . . . . .	266.3	34	22
Georgetown . . . . .	222.4	37	10
Greenville . . . . .	301.0	25	30
Greenwood . . . . .	215.4	30	23
Hampton . . . . .	247.5	29	21
Horry . . . . .	248.7	40	5
Jasper . . . . .	454.0	37	14
Kershaw . . . . .	225.0	31	34
Lancaster . . . . .	250.0	29	30
Laurens . . . . .	270.7	25	31
Leo . . . . .	304.7	32	44
Lexington . . . . .	259.7	28	20
McCormick . . . . .	201.0	27	32
Marion . . . . .	299.1	32	28
Marlboro . . . . .	333.2	30	55
Newberry . . . . .	267.5	27	22
Oconee . . . . .	269.1	25	26
Orangeburg . . . . .	279.2	28	37
Pickens . . . . .	314.3	25	27
Richland . . . . .	227.6	32	38

(Continued)

SOUTH CAROLINA

Table 1<sup>a</sup>.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County <sup>1/</sup>	Average	Coefficient	Cotton acreage har-
	yield Pounds	of variation Percent	vested as percentage of cropland harvested <sup>2/</sup> Percent
Saluda . . . . .	284.4	31	25
Spartanburg . . . . .	285.6	21	29
Sumter . . . . .	292.5	31	45
Union . . . . .	239.1	22	30
Williamsburg . . . . .	267.7	31	28
York . . . . .	285.8	31	32

<sup>1/</sup> Only counties with more than 2,000 acres of cotton harvested in 1949 -- are shown.

<sup>2/</sup> Percentage based on census data for 1949.

TENNESSEE

Table 15.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County 1/	Average yield	Coofficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percont	2/ Percent
Benton . . . . .	245.2	29	17
Bradley . . . . .	226.4	27	6
Carroll . . . . .	301.7	28	33
Chester . . . . .	293.6	32	42
Crockett . . . . .	361.3	27	51
Ducatur . . . . .	216.6	31	26
Dyer . . . . .	367.1	23	39
Fayette . . . . .	257.6	29	49
Franklin . . . . .	280.8	32	11
Gibson . . . . .	334.6	26	36
Giles . . . . .	255.7	24	14
Hardeman . . . . .	271.6	30	41
Hardin . . . . .	276.1	31	26
Haywood . . . . .	316.4	29	46
Henderson . . . . .	293.3	28	45
Henry . . . . .	264.6	27	10
Lake . . . . .	415.8	29	54
Lauderdale . . . . .	378.9	28	40
Lawrence . . . . .	276.2	22	31
Lincoln . . . . .	280.6	25	18
McMinn . . . . .	212.8	23	3
McNairy . . . . .	273.0	31	44
Madison . . . . .	301.4	27	45
Obion . . . . .	316.0	26	12
Polk . . . . .	266.1	27	15
Rutherford . . . . .	278.9	32	6
Shelby . . . . .	284.6	30	51
Tipton . . . . .	358.1	25	51
Wayne . . . . .	234.8	27	16
Weakley . . . . .	288.0	28	11

1/ Only counties with more than 2,000 acres of cotton harvested in 1949 -- are shown.

2/ Percentage based on census data for 1949.

## TEXAS

Table 16.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County 1/	Average yield <u>Pounds</u>	Coefficient of variation <u>Percent</u>	Cotton acreage har- vested as percentage of cropland harvested 2/	
			Percent	Percent
Anderson . . . . .	124.3	33		25
Andrews 3/ . . . . .	103.4	49		35
Angelina . . . . .	185.6	29		34
Atascosa . . . . .	102.1	47		5
Austin . . . . .	188.8	32		34
Bailey . . . . .	153.2	43		43
Bastrop . . . . .	118.6	33		34
Baylor . . . . .	142.5	53		17
Bee . . . . .	134.0	47		15
Bell . . . . .	152.7	20		44
Bexar . . . . .	113.5	35		5
Borden . . . . .	133.0	54		71
Bosque . . . . .	117.5	22		14
Bowie . . . . .	144.1	28		47
Brazoria . . . . .	209.5	51		13
Brazos . . . . .	197.5	25		61
Briscoe . . . . .	147.5	45		20
Brooks . . . . .	92.9	42		36
Brown . . . . .	109.3	33		11
Burleson . . . . .	180.9	29		57
Burnet . . . . .	110.7	19		15
Caldwell . . . . .	146.4	31		49
Calhoun . . . . .	194.5	45		55
Callahan . . . . .	114.7	44		10
Cameron . . . . .	256.0	35		79
Camp 4/ . . . . .	115.8	32		38
Cass . . . . .	137.8	27		40
Castro . . . . .	157.3	56		6
Cherokee . . . . .	129.2	33		36
Childress . . . . .	138.7	49		61
Clay . . . . .	134.9	41		18
Cochran . . . . .	133.5	54		66
Coke . . . . .	96.4	29		24
Coleman . . . . .	119.8	44		15
Collin . . . . .	185.2	24		47
Collingsworth . . . . .	147.2	35		49
Colorado . . . . .	166.1	36		15
Comanche 4/ . . . . .	86.5	27		7
Concho . . . . .	130.5	39		26

(Continued)

## TEXAS

Table I: .- Average yield and coefficient of variation of annual yields,  
1928-50, and cotton acreage harvested as percentage of  
cropland harvested, 1949, by counties - continued

County 1/	Average yield <u>Pounds</u>	Coefficient of variation <u>Percent</u>	Cotton acreage har- vested as percentage of cropland harvested <u>2/</u> <u>Percent</u>	
Cooke . . . . .	133.2	33		13
Coryell . . . . .	120.4	22		21
Cottle . . . . .	146.1	52		64
Crosby . . . . .	174.5	49		59
Dallas . . . . .	171.2	22		37
Dawson . . . . .	164.9	42		78
Deaf Smith 5/ . . . . .	127.3	86		1
Delta . . . . .	183.1	32		83
Denton . . . . .	151.5	27		23
De Witt . . . . .	128.3	42		23
Dickens . . . . .	159.1	47		56
Donley . . . . .	150.4	32		34
Duval . . . . .	87.8	26		44
Eastland 4/ . . . . .	87.7	30		3
Ellis . . . . .	177.5	20		69
El Paso . . . . .	587.6	21		85
Erath . . . . .	92.0	39		15
Falls . . . . .	154.4	23		57
Fannin . . . . .	172.2	33		58
Fayette . . . . .	150.4	31		33
Fisher 6/ . . . . .	138.7	45		65
Floyd . . . . .	173.6	46		24
Foard . . . . .	162.1	46		17
Fort Bend . . . . .	221.4	38		56
Franklin . . . . .	129.6	32		53
Freestono . . . . .	114.4	24		42
Frio 4/ . . . . .	77.5	47		6
Gaines . . . . .	117.4	40		38
Garza . . . . .	166.8	52		67
Glasscock 4/ . . . . .	123.3	42		76
Goliad . . . . .	126.6	41		17
Gonzales . . . . .	121.1	37		26
Gray 4/ . . . . .	131.9	38		3
Grayson . . . . .	156.3	33		29
Gregg 4/ . . . . .	121.3	31		31
Grimes . . . . .	166.4	34		51
Guadalupe . . . . .	134.5	32		25
Hale . . . . .	181.5	42		36
Hall . . . . .	160.7	44		68

(Continued)

## TEXAS

Table 16.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County 1/	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percent	2/ Percent
Hamilton . . . . .	113.1	21	10
Hardeman . . . . .	141.3	47	34
Harris . . . . .	169.4	34	6
Harrison . . . . .	127.3	32	43
Haskell . . . . .	172.1	46	59
Hays . . . . .	134.8	33	31
Henderson . . . . .	122.1	35	33
Hidalgo . . . . .	224.0	40	59
Hill . . . . .	160.6	18	72
Hockley . . . . .	172.0	40	75
Hood 4/ . . . . .	85.6	38	15
Hopkins . . . . .	127.6	32	65
Houston . . . . .	158.0	28	40
Howard . . . . .	154.1	44	83
Hudspeth . . . . .	416.3	23	87
Hunt . . . . .	157.4	29	76
Jack 4/ . . . . .	103.3	31	7
Jackson . . . . .	178.5	44	36
Jim Hogg 4/ . . . . .	86.5	41	47
Jim Wells . . . . .	131.6	37	27
Johnson . . . . .	147.8	22	38
Jones . . . . .	141.4	46	47
Karnes . . . . .	116.9	37	25
Kaufman . . . . .	147.0	22	67
Kent . . . . .	135.6	51	58
King . . . . .	147.8	51	65
Klobberg . . . . .	151.8	30	44
Knox . . . . .	176.4	46	51
Lamar . . . . .	158.5	31	63
Lamb . . . . .	202.6	31	60
Lampasas . . . . .	108.4	23	6
La Salle 4/ . . . . .	68.6	41	9
Lavaca . . . . .	148.2	30	41
Lee . . . . .	114.3	33	23
Loon . . . . .	135.2	26	24
Liberty . . . . .	195.2	34	8
Limestone . . . . .	129.8	21	66
Live Oak . . . . .	131.1	37	23
Lubbock . . . . .	207.6	43	77

(Continued)

## TEXAS

Table 15.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County 1/	Average yield	Coofficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percent	2/ Percent
Lynn . . . . .	175.8	50	66
McCulloch . . . . .	121.6	43	13
McLennan . . . . .	149.4	17	48
Madison . . . . .	145.6	30	31
Marion 4/ . . . . .	110.1	26	36
Martin . . . . .	138.4	55	85
Mason 4/ . . . . .	90.7	28	8
Matagorda . . . . .	213.9	42	24
Maverick . . . . .	252.1	27	43
Midland . . . . .	125.5	50	74
Milam . . . . .	148.7	24	46
Mills 4/ . . . . .	101.8	29	8
Mitchell . . . . .	145.7	40	72
Montague 7/ . . . . .	118.1	32	14
Morris . . . . .	128.6	32	36
Motley . . . . .	145.4	42	66
Nacogdoches . . . . .	158.4	32	29
Navarro . . . . .	150.5	17	74
Nolan . . . . .	147.9	41	49
Nueces . . . . .	232.0	24	41
Palo Pinto 4/ . . . . .	102.0	29	12
Panola . . . . .	135.0	31	51
Parker 4/ . . . . .	97.9	30	8
Farmer . . . . .	147.1	49	3
Pecos . . . . .	205.9	38	81
Polk . . . . .	183.1	37	38
Presidio 4/ . . . . .	284.9	35	63
Rains . . . . .	121.9	30	63
Red River . . . . .	148.8	30	61
Reeves . . . . .	272.2	28	85
Refugio . . . . .	199.4	46	31
Robertson . . . . .	165.9	29	50
Rockwall . . . . .	175.6	25	77
Runnels . . . . .	137.5	34	42
Rusk . . . . .	128.6	31	46
Sabine 4/ . . . . .	144.0	31	37
San Augustino . . . . .	158.6	29	46
San Jacinto . . . . .	178.9	36	33
San Patricio . . . . .	236.9	32	54

(Continued)

## TEXAS

Table 16.- Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County 1/	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested
	Pounds	Percont	2/ Percent
San Saba . . . . .	120.5	30	19
Schleicher . . . . .	145.2	48	44
Scurry . . . . .	138.7	45	70
Shackelford 4/ . . . . .	109.1	50	7
Shelby . . . . .	157.9	36	44
Smith . . . . .	121.4	35	28
Somervell 4/ . . . . .	95.9	27	19
Starr . . . . .	91.7	33	80
Stonewall . . . . .	134.0	46	43
Swisher . . . . .	137.1	49	7
Tarrant . . . . .	150.5	24	15
Taylor . . . . .	122.7	38	23
Terry . . . . .	145.9	40	46
Throckmorton . . . . .	141.2	60	11
Titus . . . . .	137.0	32	43
Tom Green . . . . .	146.1	41	55
Travis . . . . .	147.6	26	51
Trinity . . . . .	182.0	31	29
Upshur . . . . .	112.9	36	31
Uvaldo 8/ . . . . .	80.0	58	4
Van Zandt . . . . .	122.5	32	50
Victoria . . . . .	176.0	43	44
Walker . . . . .	153.0	29	42
Waller . . . . .	180.7	34	13
Ward . . . . .	221.2	38	85
Washington . . . . .	168.7	27	39
Webb 4/ . . . . .	71.1	39	22
Wharton . . . . .	222.2	42	47
Wheeler . . . . .	141.2	34	25
Wichita . . . . .	177.2	33	9
Wilbarger . . . . .	190.3	37	33
Willacy . . . . .	235.6	34	82
Williamson . . . . .	166.1	19	59
Wilson . . . . .	104.6	45	7
Wise 4/ . . . . .	109.4	32	5
Wood . . . . .	123.3	36	31
Yoakum . . . . .	113.7	42	30

(Continued)

TEXAS

Table 16 - Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties - continued

County 1/	Average	Coefficient	Cotton acreage har-
	yield Pounds	of variation Percent	vested as percentage of cropland harvested 2/ Percent
Young . . . . .	116.6	42	9
Zapata 4/ . . . . .	69.0	29	47
Zavala . . . . .	119.1	77	40

— Only counties with more than 2,000 acres of cotton harvested in 1949 are shown. Less than this acreage was harvested in all unlisted counties except Dimmit which is not shown because 5 or more years of yields were missing.

2/ Percentage based on census data for 1949.

3/ Average yield and coefficient of variation based on data for 1928-44, 1947, and 1948.

4/ Average yield and coefficient of variation based on data for 1928-48.

5/ Average yield and coefficient of variation based on data for 1928-42, 1944, and 1946-48.

6/ Average yield and coefficient of variation based on data for 1928-48, and 1950.

7/ Average yield and coefficient of variation based on data for 1928-49.

8/ Average yield and coefficient of variation based on data for 1928-45, 1947, and 1948.

Table 17.-Average yield and coefficient of variation of annual yields, 1928-50, and cotton acreage harvested as percentage of cropland harvested, 1949, by counties

County 1/	Average yield	Coefficient of variation	Cotton acreage har- vested as percentage of cropland harvested 2/	
	Pounds	Percent		Percent
Brunswick . . . . .	271.3	28		9
Greensville . . . . .	317.3	33		19
Mecklenburg . . . . .	284.1	23		5
Nansemond . . . . .	337.2	32		6
Southampton . . . . .	331.5	31		8
Sussex . . . . .	285.7	33		6

1/ Only counties with more than 2,000 acres of cotton harvested in 1949 are shown.

2/ Percentage based on census data for 1949.